

OIP E INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) JUL 30 2004				ATTY DOCKET NO. 58071 CON (47126)		SERIAL NO. 09/621,574		
				Applicant(s): G. CEVC				
				FILING July 21, 2000		GROUP 1615		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
lu	AA	Re. 33,273	24/07/1990	Speaker	210	639		
	AB	4,921,706	01/05/1990	Roberts et al.	424	450		
	AC	4,619,794	28/10/1986	Hauser	264	4.1		
lu	AD	4,944,948	31/07/1990	Uster et al.	424	450		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
lu	BA	0 298 280	14.06.1988	EP	—	—		
	BB	61-271204	01.12.1986	JP	—	—		
	BC	0 088 046	11.02.1983	EP	—	—		
lu	BD	0 152 379	11.02.85	EP	—	—		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
lu	CA	M. Foldvari, et al., "Dermal Drug Delivery by Liposome Encapsulation: Clinical and Electron Microscopic Studies," J. Microencapsulation, Vol. 7, No. 4, pp. 479-489, 1990						
EXAMINER lu				DATE CONSIDERED 12/21/08				
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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 500.1004 CON/RCE	SERIAL NO.: 09/621,574	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): CEVC, Gregor		
				FILING DATE: July 21, 2000		
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**EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>lm</i>	AA 4 9 5 4 3 4 5	9/4/90	Müller			
	AB *4 9 3 7 0 7 8	6/26/90	Mezel, et al.			
	AC *4 9 2 1 7 0 6	5/1/90	Roberts, et al.			
	AD *4 9 1 1 9 2 8	3/27/90	Wallach			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>lm</i>	AE 0 0 2 4 3 7 7	05/04/00	WO	A61K	9/127	
	AF 0 0 1 2 0 6 0	03/09/00	WO	A61K	9/127	
	AG *9 8 3 3 4 8 3	8/6/98	WO			
	AH *2 0 5 2 1 6 4	9/26/92	Canada			
	AI *0 4 7 5 1 6 0	03/18/92	EP	A61K	9/127	
	AJ *9 2 0 3 1 2 2	03/05/92	WP			
	AK *9 2 0 3 1 2 2	3/5/92	WO			
	AL *WO 88 0 7 3 6 2	10/6/88	PCT			
	AM *0 2 8 0 4 9 2	8/31/88	Europe			
	AN *9 8 1 7 2 5 5	4/30/88	WO			
	AO *3 7 1 3 4 9 4	10/29/87	Germany			
	AP *0 2 2 0 7 9 7	5/6/87	Europe			
	AQ *WO 87 0 1 9 3 8	4/9/87	PCT			
	AR *0 2 1 1 6 4 7	2/25/87	Europe			
	AS *0 1 0 2 3 2 4	3/7/84	Europe			
	AT *3 0 1 6 9 7 6	11/13/80	Germany			
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
<i>lm</i>	AU	*V.M. Knepp et al., "CONTROLLED DRUG RELEASE FROM A NOVEL LIPOSOMAL DELIVERY SYSTEM. II. TRANSDERMAL DELIVERY CHARACTERISTICS", Journal of Controlled Release 12 (1990) March, No. 1, Amsterdam, NL, pp. 25-30.				
	AV	*C.E. Price, "A REVIEW OF THE FACTORS INFLUENCING THE PENETRATION OF PESTICIDES THROUGH PLANT LEAVES" on I.C.I. Ltd., Plant Protection Division, Jealott's Hill Research Station, Bracknell, Berkshire RG12 6EY, U.K., pp. 237-252.				
	AW	*K. Karzel and R.K. Liedtke, "MECHANISMEN TRANSKUTANER RESORPTION" on Grundlagen/Basics, pp. 1487-1491.				
	AX	*Search Report for PCT/EP91/01596.				
	AY	* Michael Mezel, LIPOSOMES AS A SKIN DRUG DELIVERY SYSTEM* 1985 Elsevier Science Publishers B.V. (Biomedical Division), pp 345-358.				
	AZ	*Adrienn Gesztes and Michael Mezel, "TOPICAL ANESTHESIA OF THE SKIN BY LIPOSOME-ENCAPSULATED TETRACAINE" on Anesth Analg 1988; 67: pp 1079-81.				
EXAMINER			DATE CONSIDERED			
<i>K. K.</i>			12/21/08			
*U.S. Patents, foreign publications and other documents designated with a star have been previously filed in the U.S. Patent Office in U.S. Patent No. 6,165,500 to Cevc and related applications. **EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

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lm		6	1	6	5	5	0	0	12/26/00	Cevc				
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER				DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION				
										YES	NO			
lm	BB	*4	4	4	7	2	8	7	11/7/96	Germany	A61K	9/127	Abstract	
	BC	*0	7	0	7	8	4	7	4/24/96	Europe	A61K	9/127	Abstract	
	BD	*0	7	0	4	2	0	6	4/3/96	Europe	A61K	9/127	Abstract	
	BE	*0	4	7	5	1	6	0	3/18/92	Europe	A61K	9/127	Abstract	
	BF	1	2	8	9	4	2	0	09/24/91	Canada	A61K	9/50		
lm	BG	9	0	0	9	7	8	2	7/7/90	WO	A61K	9/127		
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
lm	BH	*Harish M. Patel, "LIPOSOMES AS A CONTROLLED-RELEASE SYSTEM" on Biomedical Society Transactions 609 th Meeting, Leeds, pp 513-516.												
	BI	*Philip G. Green, et al., "IN VITRO AND IN VIVO ENHANCEMENT OF SKIN PERMEATION WITH OLEIC AND LAURIC ACIDS" on International Journal of Pharmaceutics, 48 (1988), pp 103-111.												
	BJ	*Guia M. Golden et al., "ROLE OF STRATUM CORNEUM LIPID FLUIDITY IN TRANSDERMAL DRUG FLUX" on Journal of Pharmaceutical Sciences Vol. 76, No. 1, January 1987, American Pharmaceutical Association, pp 25-28.												
	BK	*Bruce J. Aungst et al., "ENHANCEMENT OF NALOXONE PENETRATION THROUGH HUMAN SKIN IN VITRO USING FATTY ACIDS, FATTY ALCOHOLS, SURFACTANTS, SULFOXIDES AND AMIDES" on International Journal of Pharmaceutics, 33 (1986), pp 225-234.												
	BL	*Ronald R. Burnette et al., "CHARACTERIZATION OF THE PERMSELECTIVE PROPERTIES OF EXCISED HUMAN SKIN DURING LONTOPHORESIS" on Journal of Pharmaceutical Sciences Vol. 76, No. 10, October 1987, American Pharmaceutical Association, pp 765-773.												
	BM	*E.C. Katoulis et al., "EFFICACY OF A NEW NEEDLELESS INSULIN DELIVERY SYSTEM MONITORING OF BLOOD GLUCOSE FLUCTUATIONS AND FREE INSULIN LEVELS" on International Journal of Artificial Organs Vol. 12, No. 5, 1989, pp 333-338.												
	BN	*Ovais Siddiqui et al., "NONPARENTERAL ADMINISTRATION OF PEPTIDE AND PROTEIN DRUGS" on CRC Critical Reviews in Therapeutic Drug Carrier Systems, Volume 3, Issue 3, pp 195-208.												
	BO	*Abstract searched from Derwent World Patents Index Latest.												
	BP	*Cevc, G. et al., "Ultraflexible vesicles, Transfersomes, have an extremely low pore penetration resistance and transport therapeutic amounts of insulin across the intact mammalian skin", <i>Biochimica et Biophysica Acta</i> , 1368 pp. 201-215 (1998).												
	BQ	*Cevc, G., "Material Transport Across Permeability Barriers by Means of Lipid Vesicles", <i>Handbook of Biological Physics</i> , Vol. 1, pp. 465-490 (1995).												
	BR	*Mayer, L.D. et al., "Vesicles of variable sizes produced by a rapid extrusion procedure", <i>Biochimica et Biophysica Acta</i> , 858 pp. 161-165 (1986).												
	BS	*Patel, H.M. et al., "ORAL ADMINISTRATION OF INSULIN BY ENCAPSULATION WITHIN LIPOSOMES", <i>FEBS LETTERS</i> , 62(1):60-63 (February 1976).												
	BT	Schreier, H. "Liposomes - A Novel Drug Carrier, I. Phospholipids; Production and Characterization of Liposomes; II. Destiny of liposomes in vivo; use in therapy", <i>Pharmazie in unserer Zeit</i> , No. 4 (1982).												
	BU	Beyer, C. et al., "Micro Emulsions" <i>Pharmazie in unserer Zeit</i> , No. 2 (1983).												
lm	BV	Lichtenberg, D. et al., "SOLUBILIZATION OF PHOSPHOLIPIDS BY DETERGENTS STRUCTURAL AND KINETIC ASPECTS" <i>Biochimica et Biophysica Acta</i> , 737 pp. 285-304 (1983).												
EXAMINER							DATE CONSIDERED							
Kuh							12/1/02							
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							YES	NO	
h		CB 9 1 0 4 0 1 3	04/04/91	WO	A61K	9/127			
		CC 9 2 0 5 7 7 1	04/16/92	WO	A61K	9/127			
		CD 9 3 1 9 7 3 6	10/14/93	WO	A61K	9/127			
		CE 9 3 1 9 7 3 7	10/14/93	WO	A61K	9/127			
		CF 9 0 0 9 7 8 2	09/07/90	WO	A61K	9/127			
		CG 0 2 2 4 8 3 7	11/24/86	EP	A61K	9/127			
h		CH 1 7 4 0 2 8 3	07/28/83	AU	A61K	9/10			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
*EXAMINER INITIAL	CA	CI Lasch, J. et al., "Interactions of external lipids (lipid vesicles) with the skin" <i>Journal of Liposome Research</i> , 5(3) pp. 543-569 (1995). CJ Berger, M. "Oral Insulin 1922-1992: The History of Continuous Ambition and Failure" <i>Heinrich-Heine-University, Dusseldorf, Germany</i> CK Cevc, G. et al., "The skin: a pathway for systemic treatment with patches and lipid-based agent carriers" <i>Advanced Drug Delivery Reviews</i> 18 pp. 349-378 (1996). CL Benner, K., "The Human Body, The Wonderwork of the Human Body, Structure, Functions, Interactions, Processes and Mechanisms" <i>Weltbild GmbH Augsburg</i> (1995) CM SERVA FEINBIOCHEMICA FUR FORSCHUNG for SERVA Feinbiochemica GmbH & Co. (1986/1987) CN Fluka Ika-BioChemika Catalogue 16 (1988/89) CO Fieser, L.F. et al., "Organic Chemistry" <i>Hans Ruprecht Hensel, 2nd revised edition, Verlag Chemie GmbH, Weinheim/Bergstr.</i> (1968) CP A. Helenius et al., "Solubilization of Membranes by Detergents" <i>Biochimica et Biophysica Acta</i> , 415 pp. 29-79 (1975). CQ Jackson, M.L. et al., "Solubilization of Phosphatidylcholine Bilayers by Octyl Glucoside" <i>Biochemistry</i> 21 pp. 4576-4582 (1982). CR Vinson, P.K. et al., "Vesicle-micelle transition of phosphatidylcholine and octyl glucoside elucidated by cryo-transmission electron microscopy" <i>Biophysical Journal</i> Volume 56 pp. 669-681 (1989). CS Edwards, K., "Effects of Triton X-100 on Sonicated Lecithin Vesicles" <i>Langmuir</i> Vol.5 No. 2 pp.473-478 (1989). CT Brendzel, A.M., "EFFECTS OF LIPID-SOLUBLE SUBSTANCES ON THE THERMOTROPIC PROPERTIES OF LIPOSOME FILTRATION" <i>Biochimica et Biophysica Acta</i> , 601 pp. 260-270 (1980). CU Roeding, J., "Uposomes and Niosomes In Pharmacy and Cosmetics State of the Art Prospects, Techniques of Visualizing Vesicular Systems, Interaction of Uposomes with the Skin" <i>Training Course No. 105 from May 14 to 16, 1990, MARITIM Hotel Nurnberg, Frauentorgaben 11, 8500 Nurnberg.</i>

EXAMINER <i>Kuh</i>	DATE CONSIDERED 12/4/08
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									YES	NO				
h	DB	0	4	7	5	1	6	0 A1	08/23/91	EP	A61K	9/127		
	DC	9	8	1	7	2	5	5	04/30/98	WO	A61K	9/127		
	DD	0	0	1	2	0	6	0	03/09/00	WO	A61K	9/127		
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	DF	9	2	0	3	1	2	2	03/05/92	WO	A61K	9/127		
h	DG	*0	0	3	8	6	5	3	07/06/00	WO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)														
h	DH	Attachment filed by Opponent - November 13, 1996 (Exhibit C)												
	DI	Patentee's Response to Opposition Request - April 21, 1997 (Exhibit D)												
	DJ	Patentee Communication to the EPO - May 22, 1998 (Exhibit E)												
	DK	Opponent's Response - May 22, 1998 (Exhibit F)												
	DL	Decision of EP Opposition Division - July 30, 1998 (Exhibit G)												
	DM	Appeal by Opponent - December 4, 1998 (Exhibit H)												
	DN	Response by Patentee - April 19, 1999 (Exhibit I)												
	DO	*G. Blume and G. Cevc, Drug-Carrier and Stability Properties of The Long-Lived Lipid Vesicles, Cryptosomes, In Vitro and In Vivo, Journal of Uposome Research, 2(3), 355-368 (1992).												
h	DP	John M. Clark, Jr.: <u>Experimental Biochemistry</u> ; Biochemistry Division, Department of Chemistry; University of Illinois, pgs. 47-48												
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						12/21/05								
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